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November 16, 2015

DIV. OF OIL, GAS & MINING

Paul B. Baker, Mining Program Manager State of Utah, Div. of Oil Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114

RE: M/029/0008 Morgan Quarry Revised Surety Calculations

Dear Mr. Baker,

Per your request, I have revised the surety calculations for the above referenced quarry based the current cost factors listed in the Means Heavy Construction Cost Data and equipment rates from the Rental Rate Blue Book on Heavy Equipment. Please look them over and let me know if you have any questions.

Sincerely,

Brent R. Sumsion

Property and Environmental Manager

Bonding Calculations

Di	rect	Cos	ts
	I COL		

Subtotal Demolition and Removal Subtotal Backfilling and Grading Subtotal Revegetation Direct Costs	\$63,264.00 \$68,856.00 \$48,000.00 \$180,120.00	
Indirect Costs		
Mob/Demob	\$18,012.00	10.0%
Contingency	\$9,006.00	5.0%
Engineering Redesign	\$4,503.00	2.5%
Main Office Expense	\$12,248.00	6.8%
Project Mainagement Fee	\$4,503.00	2.5%
Subtotal Indirect Costs	\$48,272.00	26.8%
Total Cost base on 2015 Costs	\$228,392.00	
Number of years		5
Escalation factor		0.013
Escalation	\$5,382.00	
Reclamation Cost Escalated	\$233,774.00	
Bond Amount (rounded to nearest \$1,000) 2020 Dollars on 38-Acres Bonded Area	\$234,000.00	
Posted Bond		
Difference Between Cost Estimate and Bond Percent Difference	\$0.00	





Demolition Costs

Ref.	SUMMARY OF DEMOLITION	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
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sed October 2008

Geneva Rock Products, Inc. - Morgan Quarry

Demolition Costs

Description Ref.	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume CF	Weight	Density	Time	Number Loads	Unit	Swell	Quantity	Unit	Cost
CRUSHER	CHARLESTON - Inchisco.	sales in the	Bazzer	2030						and the same					1				
Conveyors (15)	Steel Bldg. Large	02 41 16.13 0020			70.00	4.00							10.00	15	ft		16,800.00		6,048
Jaw Crusher/feeder	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	12.00	12.00			N CONTROL					1 ft		11,520.00		4,147
3-Deck 7x20 Screen	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	10.00	12.00							4	1 ft		19,200.00		6,912
2- Deck 5x16 Screen	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	30.00	10.00	12.00								1 ft		3,600.00	cf	1,296
Cone Crusher w/ Screen	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	12.00	12.00	do S Pando	1		Market Mark			2	2 ft	100	11,520.00	cf	4,147
Control House/Tower	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	45.00	10.00	12.00				Ga Samura			1	1 ft		5,400.00	cf	1,944
Generator - 1000 KW	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	8.00	10.00		10000					1	1 ft		3,200.00	cf	1,152
Conex Parts Storage Container	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	8.00	8.00			A Discount			- Maria	1	1 ft		2,560.00	cf	922
Wash Plant	Steel Bldg. Large	02 41 16.13 0020	0.36	/CF	40.00	12.00	12.00							1	1 ft		5,760.00	cf	2,074
Misc. Pipe, legs, and Splitter	Steel Bldg. Large	02 41 16.13 0020	0.36		40.00	8.00	8.00			AND DESCRIPTION OF THE PARTY OF				1	1 ft		2,560.00	cf	922
30 Miles to Allied Metals, Ogden - 20 miles covrd		- and makes it of the	Name of the last o	7.0				1									Carlotte State of the		
Total Volume of Materials	In contrast standing a time of the standing	Section 1	Harain Ind									A State of Passage			14.112	30.000	82,120,00	cf	
Volume of Debris	t message and the control of	CALLED TRACT AL	69									B DES	21 9 3			0.3	24,636,00		
Weight of Debris	A CONTRACTOR OF THE CONTRACTOR		and the same									488	3		lb/cf		6,011	tons	
No. of Trip 16 Tons	6 - Military African or Service Anni America	And the second second		45.00			-								1			Trip	
Add .5Hr per round trip	1 0.000 20.000 0.000	and the second second		a min															
Hual to Recycling Center 1hr rnd trip	Truck Dump 16 Ton Payload	01 54 33 20 5300	\$ 602.20	Day													23.48	Day	16,254
Truck Driver	Truck driver, Heavy	Trhy	\$ 57.30								-						187.85		10,764
Subtotal	Truck driver, neavy	TITIV	\$ 37.30	TIK		ESSESSE AND SERVICE											107.00	and the last	56,600
				E CHIEF CONTRACTOR		The state of the s							200000000000000000000000000000000000000					No.	30,000
Fuel Tank	CONTRACTOR AND	00.05.40.00.0400	1,775	-											1 Ea		-	Ea	1,775
Removal of Storage Tanks	9000 gal to 12000 gal tank	02 65 10 30 0130	1,775			75-									1 Ea			Ea	152
Remove Sludge, water remaining products	9000 gal to 12000 gal tank	02 65 10 30 0853													1 Ea			Ea	1,150
haul tank 100 miles round trip	9000 gal to 12000 gal tank	02 65 10 30 1029	1,150	Ea.		2		-							I Ea		1	Ea	1,150
colonia de alcontesta esticale distribuido de la colonia d	TO SECURE ADDRESS OF THE PARTY OF	20 10 10 10 10 10 10 10 10 10 10 10 10 10	100													-			
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Subtotal		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	BARREST STATE	rikaleus)	2000 NO. 100 N	Section Section	W TANASTALISM		Ministra	HART BELOW BUTTON	AND MEDICAL CAR	NE SECTION SERVICES	100000000000000000000000000000000000000	the Res Debutton	A SERVICE	800 B 500	and the control of the control	TORSON MAN	3,077
Demolition Cost Structures Disposed on Site	to present the second second second	K BC BE T											1 1 1 1 1 1						
Truck Scales	Steel Bldg. Large	02 41 16 13 0020	0.36	/CF	100	10	0 2	2							ft		2000	cf	620
Demolition Cost	Control and Control	service street to be	140.50	100															
Concrete's Vol. Demolished	to the state of the second of the	sex president in the	9.75								100		100						
Loading Cost	7. S. S. (0.8. 11.81) - 2 to (0.1.11.8)	Strate Catholic Control					-						200						
Transportation Cost Disposal Costs	E Market Darket Contract State Contract			3															100
Subtotal	A MORE CONTROL OF THE PROPERTY	AND REAL PROPERTY.	William Committee	16/3/2009		2600/05/2009	B SANSANIA			rai strate state	Mile Calabida	or other section	100000000	eri Mendenbilana	e Harristania	E HEET SHOW	e construire de la cons	Service Co.	620
The state of the s	A STREET STREET		et et e			-													
Concrete Demolition	to appear and the second	officers are a source	position in the	3 4 6			1		No. of the						1	1			I Carlotte State of the State o
Demolition Cost	L Totals Arms Carry and	make 25 dilling	Attended to all the	1000													Market Market		
Concrete's Vol. Demolished	C French and the contraction	186 Ba-18 1 1 1 1 1	Wasting.					MAG A											
Loading Cost	a baselin describe a feet of the	W. & - Charles - C. A.	Property Control	and a															
Transportation Cost	A DESCRIPTION OF THE PROPERTY																		
Disposal Costs Subtotal	A COMPANY TO SERVICE STREET			NE LINE AND AND	S. Substitute of the		N. Street or Street			THE SHAREST PROPERTY.	and the second		Salasasas	one standard land	and the same of	in Silvery	berking harman	SCHOOL SHOW	
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Total	AND AND AND AND AND AND ADDRESS OF A SECOND STATE OF A SECOND STAT	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	different plant (specific	OR SHARES	a designation of	Section records	a delication for	or real feet with a service to	a description is		FOR THE PARTY AND ADDRESS.	AND ADDRESS OF THE PARTY OF	Sandrior Light	Day San	or senior senior	SE SERVICE DE L'ANDIE	Secure Company of the	DESCRIPTION OF	60,297



Demo	ition	Costs

De	escription	Materials	Means Reference Number	Unit Cost	/Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
SC	CALE HOUSE & SCALE FOOTINGS	The state of the s			-														1		
	duct 50% no interior walls	- A the County of the County o	days out of the second																		1
	ructure's Demolition Cost	Mixed Materials Bldg. Large	02 41 16.13 0100	\$ 0.33	CF	40) 1	0 1	0		4000							400	OCF	\$	1,32
Str	ructure's Vol. Demolished	Mark Colors Bridge Million Colors	Carlot and the last of the las																		
	ibble's Weight (exclude steel)	A CONTRACTOR OF THE PARTY OF TH	Sale species are as a						Tolland to												
	uck's Capacity		make the of the same in the	A TOTAL TOTAL OF						Links Val		1000									
	ulage	A Company of the Comp	the second second second					100000	A Section of the sect			Color la Face					- C1 P		1 1000		
Tra	ansportation Cost Non Steel Truck	Truck Dump 16 ton payload	01 54 33.20 5300	\$ 533.00	/day									(0	day/trip			day	\$	-
Tra	ansportation Cost Non Steel Drive	Continue alter 14.786 Physics Street III									I TOLKOOK								0 hr	\$	-
Dis	sposal Cost Non Steel	Ogden Transfer Station	BECL	\$ 26.00	Ton					1 - A		and the	1				11 11	6	Ton	\$.	1,5
	eel's Weight	A CONTROL OF STREET OF STREET	- 4 Sec. 1											Too and Table							-
	uck's Capacity	The second secon	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								1 2 000					and the state of					_
	ulage		Service also at the service and the										The last state of							1	_
	ansportation Cost Steel Truck	- Charles Service States					- 1	100			1		7000					7	100	-	-
	ansportation Cost Steel Truck Drive														111		-				-
	sposal Cost Steel																-		1		-
	btotal									CALLES CO.			are manifestation			il materials		and discovering the last	and the second second	S	2,8
Su	blotal	No. of the contract of the con						ST. STREET, ST.	S. BROWN CO.	O PERSON PERSON	SERVICE SHARES	MULTIPLE SALES		S. Dispersion of	CO DESCRIPTION OF THE PERSON NAMED IN	E STATE OF SHIPS				9 4	2,0
-	uipment 's Disposal Cost	THE REST OF THE PARTY OF THE PA																			-
																					_
DIS	smantling Cost										-		-			-			-		_
	uipment 's Vol. Demolished							-					-		1	-	1	17.4	1 111		_
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	ansport Costs	and the state of t																			-
	sposal Costs		TO SEE STORY OF THE SECOND SEC			-				1											-
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Co	ncrete Demolition	A SECURITION OF THE PARTY OF TH		Ta	Tau.		1	.1												-	_
	emolition Cost	Concrete Demolition Cost	Concrete Demo1	\$ 11.03	CY	12	2	4	1			4.1		1000000		It			2 CY	\$	- 1
	ncrete's Vol. Demolished	WINDOWS AND THE PARTY OF THE PA	Sile to Late the sale		100		-	A PARTY									1.		3 CY	-	-
	ading Cost	Front end loader wheel 3 cy	31 23 16 42 1601	1.24															3 CY	\$	
	ansportation Cost	12CY (16 ton) Dumpl Truck 1/2mi. Mc	d. Trig 31 23 23 20 0320	\$ 9.55	CY						100								3 CY	\$	- 1
	sposal Costs	Disposal on site	02 41 16 17 4200	\$ 10.80	/CF				10000	1		(100				3 CY	\$;
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	ncrete Demolition	The same of the property of the same of th	AND RESIDENCE OF STREET	Million Control										Service							
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	ncrete's Vol. Demolished	Sometiment of the contract of the	and the second second	F-73. 3.30			N. Company					1					- 1				
	ading Cost	and appropriate a blood of the Brook State	K. S. Bis . R. C. C. C. C.																		
Tra	ansportation Cost	S THE CORP COLUMN TO SHARE A SECOND S	A SECTION OF SECTION ASSESSMENT			The state of the s	Carried Street				The same of the sa			A REAL SE							
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	emolition Cost	Carrier Market Speed Charles and Section					1			2 111		100 E 100			1 1 1 N 1		10000				
	ncrete's Vol. Demolished														950						_
	ading Cost	and the second s																			_
	ansportation Cost				-		-							-					-		_
	sposal Costs																			-	_
					Maria Caracteria	Sales Constitution	A CONTRACTOR OF THE PARTY OF TH				and the same of the same	NAME OF TAXABLE PARTY.							E SON SERVICE	N. of Philosophy and	
C																				THE RESERVE TO SERVE THE PARTY OF THE PARTY	
Su	blotal					Marian Ma				The state of the s						-					_



Earthwork Costs

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units		ubtotal Cost
SUMMARY EARTHWORK	The Marie of	PER P		1992												
Spread Stockpiles		and the second second													\$	39,408
Replace Topsoil - Quarry Floor	e group out to					794									\$	15,216
Replace Topsoil - Quarry Floor Replace Topsoil - Benches	description and the	element of the	An inches					and the same							\$	14,232
replace Topson - Benefices	and the same of	and the same of				The state of	CITE D. DOM			Contraction of				All Laborator	No.	A 18 (18)
are to any the second of the s		ark of the								Maria I						
AND AND ADDRESS AND		and the same		10550 7550					475 a. se -	and the same						
		No. Section 18							and the same	W. 10 B. J					- 3	
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州中华中国的	N THE DAY IN ALL IN	104-1049-11-10-2														
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HER THERESE SHEET THE CONTRACT AND A SERVICE AND A SERVICE AND ASSESSMENT OF THE PROPERTY OF THE PROPERTY ASSESSMENT OF THE PROPERTY	E Elizabetzek (E		AT TOWN	7-11-1												
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should subject the state of the	I INVESTIGATE IN	THE PERSON OF	Berneller, and	0.4000	Para Inval. Lai											ACTION AND
Many a Market Market and the second of the s	a freety-turn.	CHARLE I	ONE SECTION AND ADDRESS.	Actor Lagran				100000								
elling requiries these reasons of the control of the second	Chicago Inchicago	del concor es	BE 108 S. L.	1017					The Island						-	
Total	The State of the late of the l	day or Salary to a	With the best of the		Designation of the	SHARRISH WAR	MANAGEMENT .	1000000			新加州的市场	THE RESERVE	Property and the		\$	68,856



Earthwork Costs

	Equipment	Hourly Operating	Equipment	Operator's Hourly	Hourly		Total Eq. & Lab		33% of Inventory		Production		Equip. + Labor		-1-	
Halanda Arasa as a second second	Cost	Costs	Overhead	Wage Rate	Cost	Each	Costs	Units	Quantity	Units	Rate	Units	Time/Dis.	Units	-	Cost
SPREAD REMAINING AGGREGATE STOCKPILES	7 - 3 - 3	1111						200								
									9,900							
Road Base (1"dia.)									4,950			**		1.		Con-ext
Fines (0.25" dia.)	A11		***						6,600							+ +++
Sub-base (3" dia.)	N / P / P								3,300							1
Chip Rock (0.5"dia.)		Sec. 10.13														4
Chip Rock (0.38" dia.)	19.	The Real Property	Service Control	STALL STALL STALL			120000		4,950				100	1000		
Drain Rock									3,300					1.1		
Basket Rock (8" dia.)		SIND OF HER	Part to the						3,300							
Course Aggregate 3/4"		STATE OF STATE		1000	8.1			115	4,950			-		201 10 100	-	
Landscape Boulders		Attached S. H.	-1-5						1,650	128 38			MANUFACTURE BY			1000
Total Tons			State Co.				No.		42,900							\$
Total CY using 1.5 ton/LCY conversion factor							-		28,600	la constant						
623G EROPS (Equipment Watch 2015)	22200	\$ 138.90	0.1	\$ 74.15	\$ 365.69	2	\$ 731.38		28,600	LCY	682	LCY/HR		HR	\$	30,67
14M Grader EROPS (Equipment Watch 2015)	10462.18	\$ 64.75	0.1	\$ 74.15	\$ 210.76	1		6 \$/HR						HR	\$	4,419
5,000 Gal H2O Truck, Diesel (Equipment Watch 2015)	2465.01	\$ 37.65	0.1	\$ 55.70	\$ 112.52	1		2 \$/HR						HR	\$	2,359
Foreman Average, Outside	Manual Property of the Control	Della secolar		\$ 76.35	\$ 76.35	1	\$ 76.38	5 \$/HR					21	HR	\$	1,60
Pickup Truck Crew 4X4 3/4 Ton (Equipment Watch 2015	849	\$ 10.70	0.1	\$ -	\$ 17.08	1	\$ 17.08	3 \$/HR				Line To	21	HR	\$	358
		Andreas La													-	-
1000 1000 1 本土 和企業的人的企业人工企业人民共享的股份	機能は最初ないでは	SELECTION OF THE PERSON OF	STATE OF STREET	AN SPECIFICAL PROPERTY.			CONTRACTOR OF THE PARTY OF THE	STATE OF THE PARTY NAMED IN	STATE STATE OF THE PARTY OF THE	STREET, STREET	E SUPERIOR FEBRUARY		GOLDHER SELECTION	SELECTION OF SERVICE	\$	39,40



Earthwork Costs

	Equipment	Hourly Operating	Equipment	Operator's Hourly	Hourly		Eq. &					Production		Equip. + Labor		San Land
	Cost	Costs	Overhead	Wage Rate	Cost	Each	Co	sts	Units	Quantity	Units	Rate	Units	Time/Dis.	Units	Cost
REPLACE 6" TOPSOIL OVER 12.9-ACRE QUARRY FLOOR																
623G EROPS (Equipment Watch 2015)	22200	\$ 138.90	0.1	\$ 74.15	\$ 365.69		2 \$ 73			10,406	LCY	682	LCY/HR	15.26		11,159
14M Grader EROPS (Equipment Watch 2015)	10462	\$ 64.75	0.1	\$ 74.15	\$ 210.76		1 \$ 2						4		HR	1,608
5,000 Gal H2O Truck Diesel (Equipment Watch 2015)	2465	\$ 37.65	0.1	\$ 55.70	\$ 112.52		1 \$ 1								HR	858
Foreman Average, Outside	and they be	final agents	Mary and	\$ 76.35	\$ 76.35			76.35				A CONTRACTOR	118 21		HR	582
Pickup Truck Crew 4X4 (Equipment Watch 2015)	849	\$ 10.70	0.1	\$ -	\$ 17.08		1 \$	17.08	\$/HR					8	HR	130
SCARIFYING		R 2												de la companya de la	44	
14M Grader EROPS (Equipment Watch 2015)	10462	\$ 64.75	0.1	\$ 74.15	\$ 210.76		1 \$ 2	10.76	\$/HR	13	ACRES	3.1	ACRE/HR	4	HR	877
Birth water in High a Marking angular of Kerding serie A Mills in a	1.16.639435		\$1		fall of a								1000			72211025
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The state of the s		14548														
(1) 1000 1000 1000 1000 1000 1000 1000 1		# 1 E E														
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the state of the forest and the state of the	STANCES AND A	ROW ACCOMA	30	State of the state	The Long		Contract of	The state	10 A A 10			-	**		100	
HER THE RESERVE OF THE PROPERTY OF THE PARTY	Service 1.1-9, ikm	9-4-9-31-9		1							46.2					**
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Printed 11/16/2015



Earthwork Costs

	Equipment Cost	Hourly Operating Costs	Equipment Overhead			Hourly Cost	Each		Total q. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
REPLACE 6" TOPSOIL OVER 25.1 ACRES OF BENCH AR		00013	Overnous	wagora	10	0001	Laon		00010	Olinto	Quartery	O'III.O					
HER II AND AND STORE OF THE STORE OF BENOT AND																	
623G EROPS (Equipment Watch 2015)	22200	\$ 138.90	0.1			\$ 365.69			731.38		6,130	LCY	420	LCY/HR	14.60		10,67
14M Grader EROPS (Equipment Watch 2015)	10462		0.1			\$ 210.76			210.76							HR	1,53
5,000 Gal H2O Truck Diesel (Equipment Watch 2015)	2465	\$ 37.65	0.1	\$ 55.	70 3	\$ 112.52		1 \$	112.52							HR	82
Foreman Average, Outside	Section 1887	Bost S Calety	retta de Egi	\$ 76.3	35 3	\$ 76.35		1 \$	76.35							HR	55
Pickup Truck Crew 4X4 3/4 Ton (Equipment Watch 2015)	848	\$ 10.70	0.1	\$ -	- 1	\$ 17.07		1 \$	17.07	\$/HR	Helican Con-				7	HR	12
SCARIFYING																	
14M Grader EROPS (Equipment Watch 2015)	10462	\$ 64.75	0.1	\$ 74.	15 3	\$ 210.76		1 \$	210.76	\$/HR	8	ACRES	3.1	ACRE/HR	2	HR	51
Marie a Michiel College Colleg		eri Grass													200		
1000年,中国被关键的。相关程度,对于规划的一个联系,如此是一个社会的工作工作。其实现在,在100000000000000000000000000000000000	27203842	BUSH OF BUR	1955							200					500 500		
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Revegetation Costs

Ref.		Materials	Means Reference	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
441	REVEGETATION COST - ENTIRE MIINE	经公共国政主题 过代证明 一台	Number		10000						-								100	
	Seeding Costs	Standard Vegetation Costs	Min STD Veg	\$1,000	/Acre					3	8						-			\$ 38,00
	Reseeding - assume 25%	Standard Vegetation Costs	Min STD Veg	\$1,000	/Acre					1	0								_	\$ 10,00
	Reseeding - assume 25%	Standard Vegetation Costs	IVIIII OTD VOG	\$1,000	77.010															10,00
1 1000	Management Management Associated Services	Service of the Control of the Contro	Kindle Hall College															Sales in		
J. William		CONTRACTOR OF THE PARTY OF THE PARTY.	Mark river to be being													A Company				
	DENNISH STEEL CONTRACTOR OF THE STEEL STEE		To the law to a section of																	
	della della sala della d	ALONE SERVICE SERVICE SERVICES		9 1900	1			1											4	
100			Total Serial Asia Serial					-	-	-						-				
	THE CONTRACTOR OF STREET																			
													10 00 00 000				J			
J. Company	- Maria Carlo Carl		Total Care & Committee																	a Manufactures
Shows	What was the second of the second	English and the second	Lock see of the									1					400			
Arriva Co	Subtotal		THE PERSON NAMED IN	na fermionisti	No.	N CHARLES		ER MENNESSEN A	MANAGEMEN					Name of the last o	E Military Sent	N AMERICA			A STATE OF THE PARTY OF	\$ 48,00
	DELONGO DE LA COMPANION DE LA										S 1/2				2 30 12					
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	TRACE CHARLES CONTROL																			
		Control of the Contro																		
ALC: N	Subtotal		CONTRACTOR	20 C-825 (127.)	decidence.	2000000	AT DESCRIPTION	N. COLORS	NAME OF TAXABLE PARTY.		DESCRIPTION OF		(t) control (to the control	in thickness of				300 St. Co.	-	O MANGEMENT OF
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	decession and a second second											-							-	
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	Subtotal		Company of the Company of the Company							a Reserved			All Ministration Department		-				-	and the second second
	Subtotal			SE SECTION	-			925 (19722) ACCOUNTS ON		FE		NAME OF TAXABLE PARTY OF TAXABLE PARTY.	P.		SO DESCRIPTION OF THE PERSON		100.000.0000	100000000000000000000000000000000000000		Contract Con
	AND THE RESERVE OF THE PARTY OF																			
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11. 4.5	A CALANDA OF HIS CONTRACTOR OF STREET	Server country a construction of the																		
	Mark to a second or the second of the second	Charles and the Control of																		
	THE COLUMN PROPERTY AND ADDRESS OF THE PARTY		The state of the s							-	-			-		-	-		-	
2000年	Subtotal	Second State Manager State	THE RESERVE OF THE PARTY OF THE		N STREET, STREET,		m same					S 200 March 1997		ST CHARLES SHOW	N. SECTION SECTION	N Shirtness			-	N. SPINSTER STREET
1000	DBUTS CHRON TRANSPORTED TO																			
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esstat.	Subtotal	MARKET TRANSPORTED TO THE SHE SHOW	HERRIE WARREND THE PRINTER	in the state	distriction.	B Hebblesh	M September 1	d relationship	O MANAGEMENT	E PREMISSING	NAME OF STREET	OF STREET, STR	D (5) (2) (6)	or and the same		H SHOW SAID		40000000		A SECURITY OF STREET
1000	Skerification (Mark Control of Co				100															
	Total	CONTRACTOR STANDARD S	THE REAL PROPERTY AND PERSONS IN COLUMN TO	NO. PHYSICAL SECTION	THE RESERVE	ST DESCRIPTION OF THE PERSON O	BET BUSINESSESSES	SE SECTION SERVICE	STREET, STREET	PAGEORGICAL SAN	DESCRIPTION OF THE PERSON OF T	OF STREET, STR	BELLEVIS OF STREET	ST. PROPERTY OF STREET	STATE OF THE PARTY OF	St Charleson De	100000000000000000000000000000000000000	The State of the S	A STREET, SQUARE,	\$ 48,00

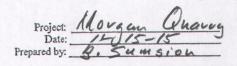
WORKSHEET 11A PRODUCTIVITY OF PUSH-PULL OR SELF-LOADING SCRAPER USE

	Earthmoving Activity: Pedistuibute Gravel Stockpiles
	Characterization of Scraper Used (type, capacity, etc.):
	Lat 623 6 Self Loading Scraper
-	Description of Scraper Use (origin, destination, grade, haul distance, capacity, etc.):
	Ovigin - Stock is les 28,600ct is 33% of Dunual Max Productivity Calculations: laul Dist = 1080' Aug Grade Z%
	Productivity Calculations: laul Dist = 1080 Aug brade 2%
	Cycle = 190 min + 10
	Hourly Production = $\frac{20.5 \text{ LCY} \times 60 \text{ min/hr}}{\text{capacity}} \div \frac{2.70 \text{ min } \times .75}{\text{cycle time}} = \frac{341 \text{ LcY/hr}}{\text{(push-pull is per pair)}} = 6824/442$
	Hours Required = $\frac{28,600}{\text{volume to be}}$ LCY ÷ $\frac{682}{\text{net hourly}}$ LCY/hr = $\frac{42}{\text{hr}}$ hr

Data Source(s):

Charts 8-22 \$ 8-23

^{*} The average of the struck and heaped capacities; use total for two scrapers for push-pull.



WORKSHEET 11A PRODUCTIVITY OF PUSH-PULL OR SELF-LOADING SCRAPER USE

Earthmoving Activity: Redistribution of Topsis, on Quarry Floor

Characterization of Scraper Used (type, capacity, etc.):

- Description of Scraper Use (origin, destination, grade, haul distance, capacity, etc.):

Origin-Topsoil Stack Piles, Dist. 1080' Aug. Gradu 2%

Productivity Calculations:

Cycle = 90 min + 6 min + 70 min + 5 min = 2.7 min freturn trip time (push-pull is per pair)

Hourly Production = $\frac{20.5}{\text{capacity}}$ LCY x 60 min/hr ÷ $\frac{2.70}{\text{cycle time}}$ min x $\frac{.75}{\text{efficiency}}$ = $\frac{341}{\text{(push-pull is per pair)}}$ = $\frac{341}{\text{(push-pull is per pair)}}$ = $\frac{682}{42}$

Hours Required = 10,460 LCY ÷ 687 LCY/hr = 15.3 hr
volume to be handled production

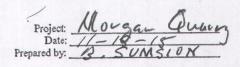
Data Source(s):

12.9 Acres x 43,5605 / scres x,5 chep /27 cf/cy = 10,406 LCY

CAT Perf. Handbook #39

Charts on 8-27 & 8-23

^{*} The average of the struck and heaped capacities; use total for two scrapers for push-pull.



WORKSHEET 11A PRODUCTIVITY OF PUSH-PULL OR SELF-LOADING SCRAPER USE

Earthmoving Activity: Redistribution of Topsoil on Bene has

Characterization of Scraper Used (type, capacity, etc.):

Cat 6236 Self loading Scrape-oper Use (origin, destination, grade, haul distance, capacity, e Origin-Topsoil Stockpiles, Dist 2,000, Aug. Grade 8%

Productivity Calculations:

Hours Required =
$$\frac{6.130}{\text{Volume to be}}$$
 LCY $\div \frac{420}{\text{net hourly}}$ LCY/hr = $\frac{14.6}{\text{hr}}$ hr

1:1 Bench Acres = 25.1 25 Benches = 63% of slopes are topsoiled Beach area to be topsoiled = 25.1 Acres x.63 = 7,61 Acres 7, 4 Acres x 43,560 SF/ACX. 5 cleep topsoil/27 cF/cy = 6,130 cy on bouches Used Cat Perf. Hardbook #39 Figures 8-22 & 2-23

^{*} The average of the struck and heaped capacities; use total for two scrapers for push-pull.

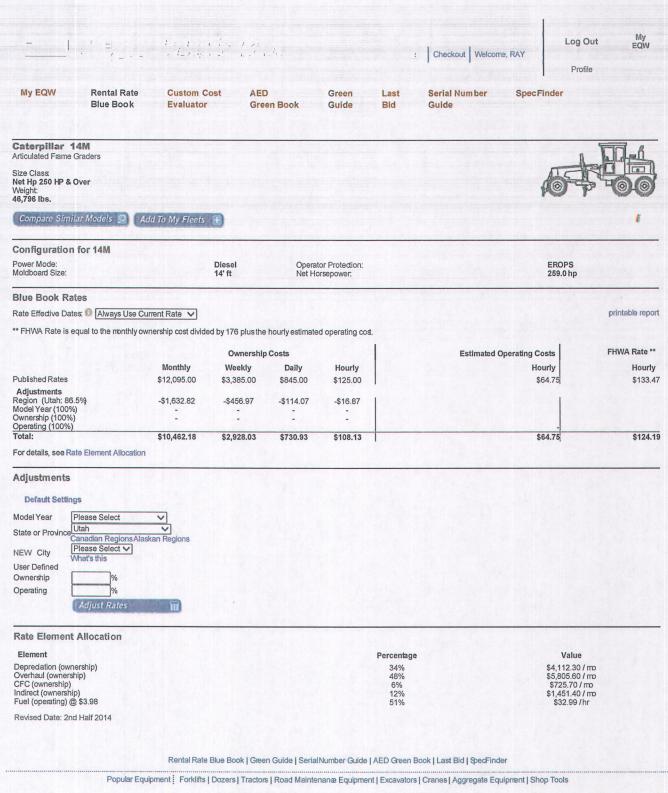
Project: Morgan Querry
Date: 15-15-15
Prepared by: 13. Sumsion

WORKSHEET 12 PRODUCTIVITY AND HOURS REQUIRED FOR MOTORGRADER USE

Characterization	of Grader Used (type, size capacity, etc.):
T/4116	rader - 14 'IXI: de Blade, Ripper Beam W. Sth 8-6" Wic
Description of G	rader Route (push distance, grade, effective blade width, operating speed, etc.):
Droductivity Cal	
Productivity Cal	Grading
	4
Hourly Production =	experience mi/hr x mi/hr x ft x 5,280 ft/mi x 1 ac/43,560 ft² effective blade width
	efficiency factor
Hours Required =	ac/hr =hr area to be graded hourly production
	area to be graded hourly production
	<u>Scarification</u>
	4 05
Hourly Production	average speed mi/hr x 8.5 ft x 5,280 ft/mi x 1 ac/43,560 ft²
	efficiency factor = 3./ ac/hr
Hours Required =	ac ÷ ac/hr = hr
	ac/hr =hr area to be scarified hourly production
	Total Harris Boguined
	Total Hours Required
Total Hours =	+ + = hr
	rading hours required scarification hours required

<u>-</u> !	· - ·						Checkout Welcom	Log s	Folia	
My EQW	Rental Rate Blue Book	Custom Cost Evaluator	AED	en Book	Green Guide	Last Serial Number Bid Guide		SpecFinder		
Miscellaneous On-Highway Light Du	4X4 3/4 160 C	CREW DSL								
Size Class Net Hp 100 -199 HP Veight: 5,500 lbs.										
Add To My Fleet	s +									
	or 4X4 3/4 160 C	REW DSL								
Power Mode: Axle Configuration: Horsepower:		Diesel 4X4 160.0			Cab Type: Ton Rating:			Crew 3/4		
Blue Book Rate	es									
Rate Effective Dates	Always Use Cur	rrent Rate 🗸							printable repo	
* FHWA Rate is equ	ual to the monthly own	nership cost divided by	y 176 plus the	hourly estimate	ed operating co	d.				
			Ownership	Costs			Estimated Operating Costs FHWA Ra			
		Monthly	Weekly	Daily	Hourly			Hourly	Hourl	
Published Rates		\$945.00	\$265.00	\$66.00	\$10.00	1		\$10.70	\$16.	
Adjustments Region (Utah: 89.89	%	-\$96.39	-\$27.03	-\$6.73	-\$1.02	1				
Model Year (100%) Ownership (100%) Operating (100%)				1						
Total:		\$848.61	\$237.97	\$59.27	\$8.98	1		\$10.70	\$15.	
For details, see Rate	Element Allocation									
Adjustments										
Default Settings										
	ease Select	$\overline{}$								
State or Province Ut	tah	~								
Ca	nadian Regions Alasi ease Select V	kan Regions								
	nat's this									
Ownership	%									
Operating	%									
	Adjust Rates									
Rate Element A	Allocation									
Element						Percenta	ae	Val	lue	
Depredation (ownership)						58%	58% \$548.10 / mo			
Overhaul (ownership) CFC (ownership) Indirect (ownership) Fuel (operating) @ \$3.98							28% 4%		\$264.60 / mo \$37.80 / mo	
						10% 71%		\$94.50 \$7.64	0 / mo	
Revised Date: 2nd	Half 2014									

Popular Equipment : Forklifts | Dozers | Tractors | Road Maintenanœ Equipment | Excavators | Cranes | Aggregate Equipment | Shop Tools



Rental Rate Blue Book | Green Guide | Serial Number Guide | AED Green Book | Last Bid | SpecFinder

40%

\$55.20 / hr

Fuel (operating) @ \$3.98

Revised Date: 2nd Half 2014

Popular Equipment | Forklifts | Dozers | Tractors | Road Maintenance Equipment | Excavators | Cranes | Aggregate Equipment | Shop Tools